

APPLICANT(S): FRISCH, Mordechai et al.

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AMENDMENTS TO THE CLAIMS

Please amend claims 1 and 31 as follows.

This listing of claims below will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1. **(Currently Amended)** An in-vivo sensing device for sensing in the gastrointestinal tract of a patient comprising:
 - a first part having a specific gravity of less than one or approximately one;
 - a second part having a specific gravity of more than one; **and**

~~a fastener detachably connecting the first part and the second part; and means for detaching, said fastener configured to detach~~ the first part and the second part during the passage of said device through said gastrointestinal tract;

wherein, when the first part and second part are connected, the specific gravity of the device is greater than one.
2. **(Canceled)**
3. **(Previously Presented)** The in-vivo sensing device according to claim 1 wherein the specific gravity of the first part is less than the specific gravity of a bodily fluid within a body lumen.
4. **(Original)** The in-vivo sensing device according to claim 1 comprising an imager and an illumination source.
5. **(Canceled)**
6. **(Previously Presented)** The in-vivo sensing device according to claim 1 wherein said fastener comprises a filament.

7-8. **(Canceled)**

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9. (Withdrawn)(Previously Presented) The in-vivo sensing device according to claim 1 wherein said fastener comprises a magnet, to temporarily attach the first part and the second part by an electromagnetic force.

10-12. (Canceled)

13. (Previously Presented) The in-vivo device according to claim 1 wherein the first part is configured to detach in-vivo from the second part based on a predetermined parameter.

14-30. (Canceled)

31. (Currently Amended) A system for in-vivo sensing comprising:
an in-vivo sensing device for sensing in the gastrointestinal tract of a patient comprising:
a first part having a specific gravity of less than one or approximately one;
a second part having a specific gravity of more than one; and
a fastener detachably connecting the first part and the second part; and means
for detaching , said fastener configured to detach the first part and the second part
during the passage of said device through said gastrointestinal tract;
wherein, when the first part and second part are connected, the specific
gravity of the device is greater than one;
an external receiver to receive wireless signals from the in-vivo device.

32. (Original) The system according to claim 31 comprising an in-vivo imager.

33. (Canceled)

34. (Original) The system according to claim 31 comprising an external transmitter for transmitting signals to the in-vivo device.

35-36. (Canceled)

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37. (Original) The system according to claim 31 comprising a display to display sensed data from the in-vivo sensing device.
- 38-39. (Canceled)
40. (Previously Presented) The in-vivo sensing device according to claim 1, wherein the first part is activated upon detachment from the second part.
41. (Previously Presented) The in-vivo sensing device according to claim 1, wherein the second part is activated upon detachment from the first part.
42. (Previously Presented) The in-vivo sensing device according to claim 13, wherein the predetermined parameter is a lapse of a predetermined period of time or a sensed environmental condition.
43. (Previously Presented) The in-vivo sensing device according to claim 42, wherein the sensed environmental condition is a body temperature, an exposure to a certain liquid in a body lumen, or a pH level.
44. (Previously Presented) The in-vivo sensing device according to claim 1, wherein the first part or second part encapsulates medicaments that may be released upon the detachment of the second part or first part, respectively.
45. (Withdrawn)(Previously Presented) The in-vivo sensing device according to claim 1, wherein the first part and second part are caused to detach by ultrasound waves.
46. (Previously Presented) The in-vivo sensing device according to claim 1, wherein the in-vivo sensing device comprises a photodiode switch.

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47. **(Previously Presented)** The in-vivo sensing device according to claim 1, wherein the in-vivo sensing device comprises a motion detector.

48. **(Previously Presented)** The system according to claim 34 wherein the external transmitter is an ultrasound transmitter.